

57) ABSTRACT OF THE DISCLOSURE

A method and system for enhancing the resolution of an image sensing device, including the steps of attaching a mask to a panel of detectors in an image sensing device, generating multiple fields of view, related to one another by sub-pixel shifts, acquiring multiple images with the image sensing device from the multiple fields of view, and combining the multiple images into an enhanced image of higher pixel resolution than the pixel resolutions of the multiple images.